



National Voluntary Laboratory Accreditation Program



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

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CALIBRATION LABORATORIES

NVLAP LAB CODE 200647-0

Scope Revised: 2006-06-23

NVLAP Code: 20/A01

ANSI/NCSL Z540-1-1994; Part 1

Compliant

MECHANICAL

NVLAP Code: 20/M08

Mass – Metric

<i>Range</i>	<i>Best Uncertainty (\pm)^{note 1}</i>	<i>Remarks</i>
30 kg	10.6 mg	Echelon II
20 kg	7.5 mg	Echelon II
10 kg	3.2 mg	Echelon II
5 kg	1.6 mg	Echelon II
3 kg	1.0 mg	Echelon II
2 kg	0.69 mg	Echelon II
1 kg	0.17 mg	Echelon II
500 g	99 μ g	Echelon II
300 g	65 μ g	Echelon II
200 g	45 μ g	Echelon II
100 g	29 μ g	Echelon II
50 g	17 μ g	Echelon II
30 g	12 μ g	Echelon II
20 g	7.6 μ g	Echelon II
10 g	7.3 μ g	Echelon II
5 g	3.6 μ g	Echelon II

2006-01-01 through 2006-12-31

Effective dates

For the National Institute of Standards and Technology



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3 g	2.0 µg	Echelon II
2 g	1.5 µg	Echelon II
1 g	1.3 µg	Echelon II
500 mg	1.1 µg	Echelon II
300 mg	0.69 µg	Echelon II
200 mg	0.65 µg	Echelon II
100 mg	0.60 µg	Echelon II
50 mg	0.57 µg	Echelon II
30 mg	0.53 µg	Echelon II
20 mg	0.44 µg	Echelon II
10 mg	0.50 µg	Echelon II
5 mg	0.44 µg	Echelon II
3 mg	0.48 µg	Echelon II
2 mg	0.53 µg	Echelon II
1 mg	0.53 µg	Echelon II
Mass - Avoirdupois		
1000 lb	1.9 g	Echelon II
500 lb	0.9 g	Echelon II
50 lb	8.2 mg	Echelon II
25 lb	4.6 mg	Echelon II
20 lb	3.3 mg	Echelon II
10 lb	1.7 mg	Echelon II
5 lb	1.2 mg	Echelon II
2 lb	0.20 mg	Echelon II
1 lb	0.12 mg	Echelon II
8 oz	86 µg	Echelon II
4 oz	70 µg	Echelon II
2 oz	45 µg	Echelon II
1 oz	14 µg	Echelon II
1/2 oz	12 µg	Echelon II
1/4 oz	9.5 µg	Echelon II
1/8 oz	5.2 µg	Echelon II
1/16	1.9 µg	Echelon II

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1/32	1.9 µg	Echelon II
Mass - Metric		
50 kg	1.3 g	Echelon III
35 kg	0.25 g	Echelon III
30 kg	0.18 g	Echelon III
20 kg	0.18 g	Echelon III
10 kg	0.16 g	Echelon III
5 kg	5.5 mg	Echelon III
3 kg	5.3 mg	Echelon III
2 kg	4.7 mg	Echelon III
1 kg	2.9 mg	Echelon III
500 g	3.0 mg	Echelon III
300 g	3.0 mg	Echelon III
200 g	0.31 mg	Echelon III
100 g	0.27 mg	Echelon III
50 g	0.13 mg	Echelon III
30 g	0.13 mg	Echelon III
20 g	0.13 mg	Echelon III
10 g	57 µg	Echelon III
5 g	57 µg	Echelon III
3 g	57 µg	Echelon III
2 g	57 µg	Echelon III
1 g	50 µg	Echelon III
500 mg	50 µg	Echelon III
300 mg	50 µg	Echelon III
200 mg	50 µg	Echelon III
100 mg	42 µg	Echelon III
50 mg	3.4 µg	Echelon III
30 mg	3.4 µg	Echelon III
20 mg	3.4 µg	Echelon III
10 mg	2.7 µg	Echelon III
5 mg	2.7 µg	Echelon III
3 mg	2.7 µg	Echelon III

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2 mg	2.7 µg	Echelon III
1 mg	3.0 µg	Echelon III
Mass - Avoirdupois		
5000 lb	57 g	Echelon III
4000 lb	56 g	Echelon III
3500 lb	56 g	Echelon III
3000 lb	32 g	Echelon III
2500 lb	32 g	Echelon III
2000 lb	32 g	Echelon III
1000 lb	3.4 g	Echelon III
500 lb	2.5 g	Echelon III
100 lb	1.3 g	Echelon III
50 lb	0.18 g	Echelon III
30 lb	0.16 g	Echelon III
25 lb	0.16 g	Echelon III
20 lb	0.16 g	Echelon III
10 lb	5.5 mg	Echelon III
5 lb	5.5 mg	Echelon III
4 lb	5.3 mg	Echelon III
3 lb	4.7 mg	Echelon III
2 lb	2.9 mg	Echelon III
1 lb	3.0 mg	Echelon III
0.5 lb / 8 oz	3.0 mg	Echelon III
0.3 lb / 4 oz	0.46 mg	Echelon III
0.2 lb / 2 oz	0.35 mg	Echelon III
0.1 lb / 1 oz	0.24 mg	Echelon III
0.05 lb	0.24 mg	Echelon III
0.03 lb / 1/2 oz	0.24 mg	Echelon III
0.02 lb / 1/4 oz	0.11 mg	Echelon III
0.01 lb / 1/8 oz	0.11 mg	Echelon III
0.005 lb	0.11 mg	Echelon III
0.003 lb / 1/16 oz	0.11 mg	Echelon III

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0.002 lb / 1/32 oz	68 µg	Echelon III
0.001 lb	68 µg	Echelon III
100 oz t	5.5 mg	Echelon III
50 oz t	4.7 mg	Echelon III
20 oz t	2.9 mg	Echelon III
10 oz t	3.0 mg	Echelon III
5 oz t	0.31 mg	Echelon III
2 oz t	0.27 mg	Echelon III
1 oz t	0.13 mg	Echelon III
10 dwt	0.13 mg	Echelon III
5 dwt	57 µg	Echelon III
2 dwt	57 µg	Echelon III
1 dwt	57 µg	Echelon III
5 grain	50 µg	Echelon III
2 grain	50 µg	Echelon III
1 grain	42 µg	Echelon III

NVLAP Code: 20/M12

Volume

Range	Best Uncertainty (\pm)^{note 1}	Remarks
5 gal	0.11 mL	Gravimetric
1 gal	0.37 mL	Gravimetric
0.5 gal	0.27 mL	Gravimetric
1 L	0.82 mL	Gravimetric
1 qt	0.14 mL	Gravimetric
1 pt	0.11 mL	Gravimetric
1/2 pt	0.079 mL	Gravimetric
5 gal	0.13 in ³	Volume Transfer

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1. Represents an expanded uncertainty using a coverage factor, $k = 2$, at an approximate level of confidence of 95 %.

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A handwritten signature in black ink that reads "Sally S. Bruce".

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